### PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference AZ05-283WOWW	FOR FURTHER ACTION	See item 4 below
International application No. PCT/KR2005/004166	International filing date (day/month/year) 07 December 2005 (07.12.2005)	Priority date (day/month/year) 08 December 2004 (08.12.2004)
International Patent Classification (8th See relevant information in Form F	n edition unless older edition indicated) PCT/ISA/237	
Applicant LG ELECTRONICS INC.		

<ol> <li>This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).</li> </ol>						
<ol> <li>This REPORT consists of a total of 4 sheets, including this cover sheet.</li> <li>In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.</li> </ol>						
3. This report contains indications relating to the following	3. This report contains indications relating to the following items:					
Box No. I Basis of the report	Basis of the report					
Box No. II Priority	Priority					
Box No. III Non-establishment o applicability	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of unity of invo	Lack of unity of invention					
Box No. V Reasoned statement applicability; citation	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain documents of	Certain documents cited					
Box No. VII Certain defects in the	Certain defects in the international application					
Box No. VIII Certain observations	Certain observations on the international application					
<ol> <li>The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).</li> </ol>						
	Date of issuance of this report 13 June 2007 (13.06.2007)					
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Form PCT/IB/373 (January 2004)

### PATENT COOPERATION TREATY

To:  BAHNG Hae Cheol KBK & ASSOCIATES 15 th Floor Yosam Building 648 Yeoksam-dong, Kangnam-gu, Seoul, 135-080 Republic of Korea	3-23,	INTERNATION	PCT TEN OPINION OF THE MAL SEARCHING AUTHORITY  (PCT Rule 43bis.1)  March 2006 (14.03.2006)		
Applicant's or agent's file reference AZ05-283WOWV	v	FOR FURTHER ACT	See paragraph 2 below		
International application No. PCT/KR 2005/004166		date (day/month/year) 2005 (07.12.2005)  Priority Date (day/month/year) 8 December 2004 (08.12.2004)			
International Patent Classification (IPC) o D06F 39/12 (200	or both national classifi 06.01); <i>H01R 13</i> /	cation and IPC '639 (2006.01); <i>H0</i>	1R 13/74 (2006.01)		
Applicant  LG ELECTRONICS INC.					
1. This opinion contains indications relating to the following items:    Cont. No. I   Basis of the opinion					
Name and mailing address of the ISA/ Austrian Patent Dresdner Straße 87, A-	Office	Authorized office	WININGER B.		
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# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/KR 2005/004166

#### Continuation No. I

### Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed.

#### Continuation No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

#### 1. Statement

Novelty (N)	Claims 1-21 Claims	YES NO
Inventive step (IS)	Claims 6, 7, 9, 10, 17-21 Claims 1-5, 8, 11-16	YES NO
Industrial applicability (IA)	Claims 1-21 Claims	YES NO

## 2. Citations and explanations:

The following documents have been cited in the Search Report:

D1: US 6 089 910 A D2: US 5 927 836 A D3: EP 0 572 012 A1

Document D1 shows a connector 1 with a water-proofing packing 10 attached to the outer periphery of a housing body 2 fitting in a panel hole 31. The water-proofing packing 10 made of rubber has a packing body 11 having a passing-through hole 12, a ring-shaped groove 13 formed on the outer periphery thereof, and inner sealing portion 14 extending in a fitting direction from the vicinity of the passing-through hole 12. The ring-shaped groove 13 is fit over the inner peripheral edge of the panel wall abutting the panel hole 31.

Document D2 includes a fastener 64 which has a one-piece construction. The fastener 64 includes an outer perimeter flange 66, a lower inner flange 68 extending along the bottom edge of the fastener 64, and an upper inner flange 70, and a recessed portion 72 extending between the lower inner flange 68 and the upper inner flange 70. The fastener 64 can be snap fit into the opening. The wall recesses around the opening towards the inner side to prevent the fastener to project outside.

By reason that both documents D1 and D2 include devices for fixing a fastening member to a cabinet the skilled person would therefore regard it as a normal design option to combine the features of document D1 and D2 to solve the problem posed. Considering documents D1 and D2 the features of

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/KR 2005/004166

claims 1 - 5, 8, 11 - 16 are shown. Hence, the subject-matters of claims 1 - 5, 8, 11 - 16 do not involve an inventive step.

Document D3 embodies a body-mounted connector 10 secured to a member 13. Engaging members 10n are projecting downward from the front, but there is no circumferential groove for fastening the connector 10.

In summary it can be ascertained that the subject matters of claims 1-21 are new. The subject-matters of claims 6, 7, 9, 10, 17-21 involve an inventive step, but subject-matters of claims 1-5, 8, 11-16 do not involve an inventive step.

Industrial applicability is given.